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(11) **EP 1 077 254 A2**

(12) **EUROPEAN PATENT APPLICATION**

(43) Date of publication:
21.02.2001 Bulletin 2001/08

(51) Int. **C12N 5/06, C12N 5/08**
Cl.7:

(21) Application number: 00307153.7

(22) Date of filing: 21.08.2000

(84) Designated Contracting States:
AT BE CH CY DE DK ES FI FR GB GR IE IT
LI LU MC NL PT SE
Designated Extension States:
AL LT LV MK RO SI

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(30) Priority: 19.08.1999 US 149849 P

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(54) **Multiple mesodermal lineage differentiation potentials for adipose tissue-derived stromal cells and uses thereof**

(57) The invention relates to methods and compositions for the differentiation of stromal cells from adipose tissue into hematopoietic supporting stromal cells and myocytes of both the skeletal and smooth

muscle type. The cells produced by the methods are useful in providing a source of fully differentiated and functional cells for research, transplantation and development of tissue engineering products for the treatment of human diseases and traumatic tissue injury repair.

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